

Abstract

5 The present invention relates to an optoelectronic sensor for demodulating a modulated photon flux (50), and to a measuring device, in particular for 3D distance measurement, having at least one optoelectronic sensor of this type.

10 The optoelectronic sensor has at least two collecting zones (20, 22) introduced in a semiconductor region (10), which collecting zones are for example diffused into the semiconductor region and doped inversely with respect to the semiconductor region (10). The collecting zones (20, 22) serve for collecting and tapping off minority carriers
15 generated upon penetration of a modulated photon flux (50). Furthermore, at least two control zones (32, 34) are introduced in the semiconductor region (10), which control zones generate a drift field in a manner dependent on a control voltage that can be applied to the control zones (32,
20 34), the control zones (32, 34) being of the same doping type as the semiconductor region (10).

(Figure 1)